



ED\_006381\_00056583-00001

# NCI: Stopping Aftermarket Defeat Devices for Vehicles and Engines

Numerous companies and individuals have manufactured and sold hardware and software specifically designed to defeat required emissions controls in violation of the CAA

Illegally-modified vehicles and engines contribute substantial excess pollution that harms public health and impedes efforts by the EPA, tribes, states, and local agencies to plan for and attain air quality standards

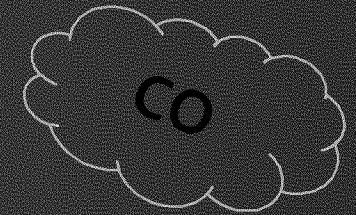
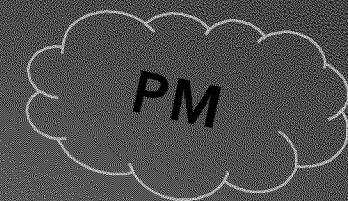


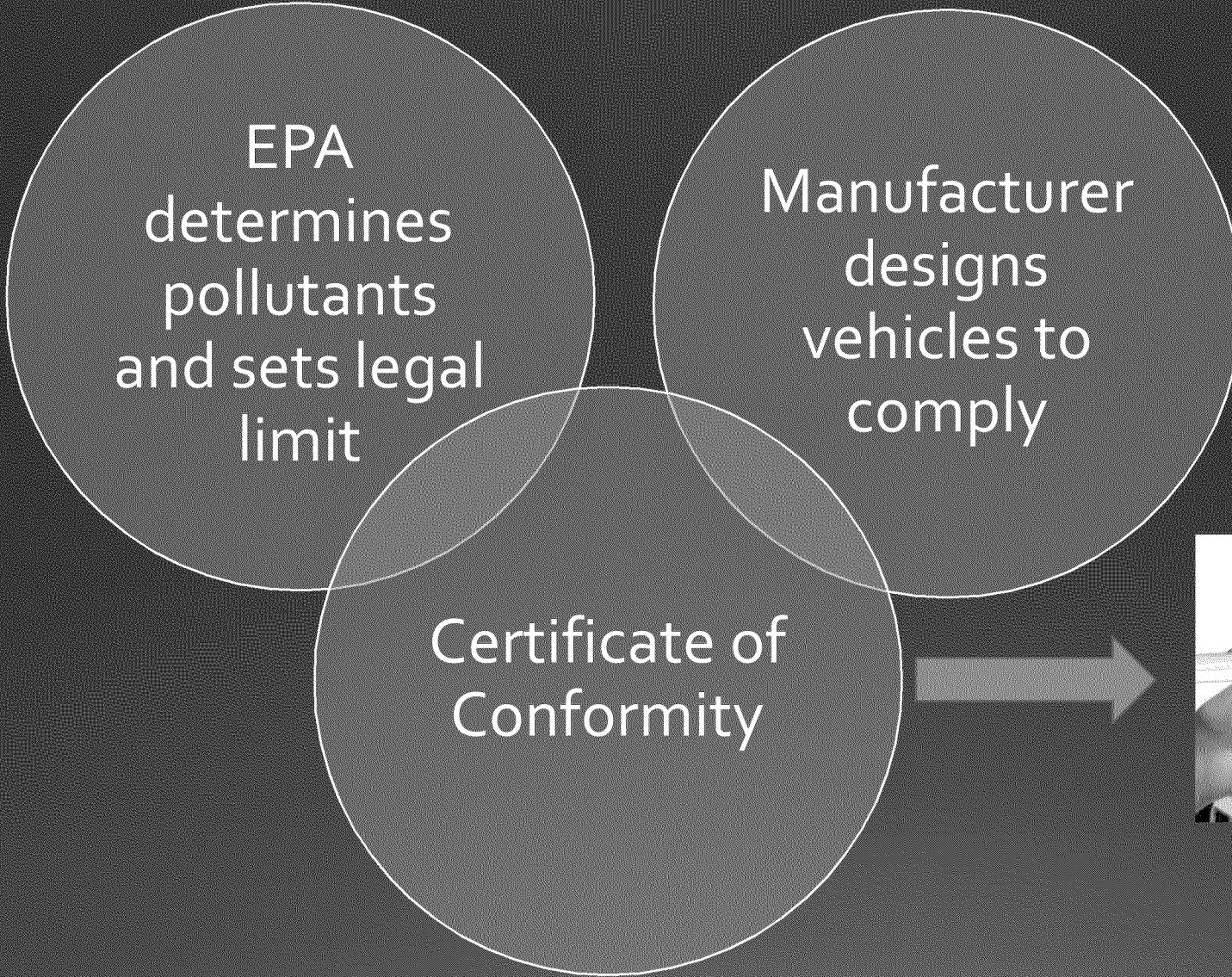
What drives  
demand?

- premature death in people with heart or lung disease,
- nonfatal heart attacks,
- irregular heartbeat,
- aggravated asthma,
- decreased lung function, and
- increased respiratory symptoms, such as irritation of the airways, coughing or difficulty breathing.

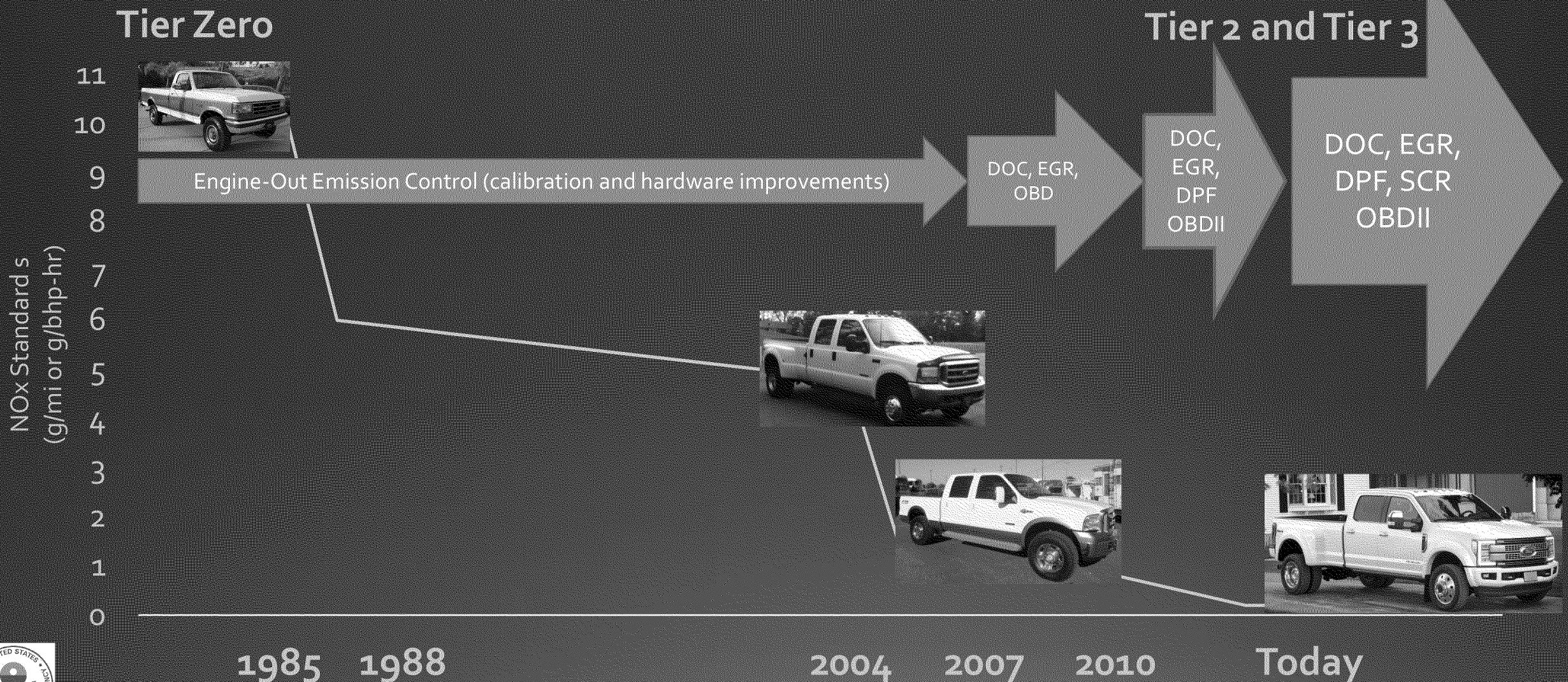


# Title II of the Clean Air Act: Vehicles and Engines

A white outline of a cloud shape containing the text "NOx".A white outline of a cloud shape containing the text "CO".A white outline of a cloud shape containing the text "PM".



# Tampering and Aftermarket Defeat Devices Undermine EPA's Vehicle and Engine Program



Source: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100OA01.pdf>

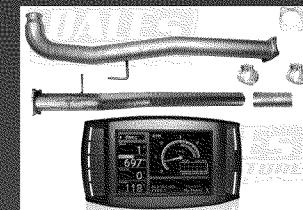
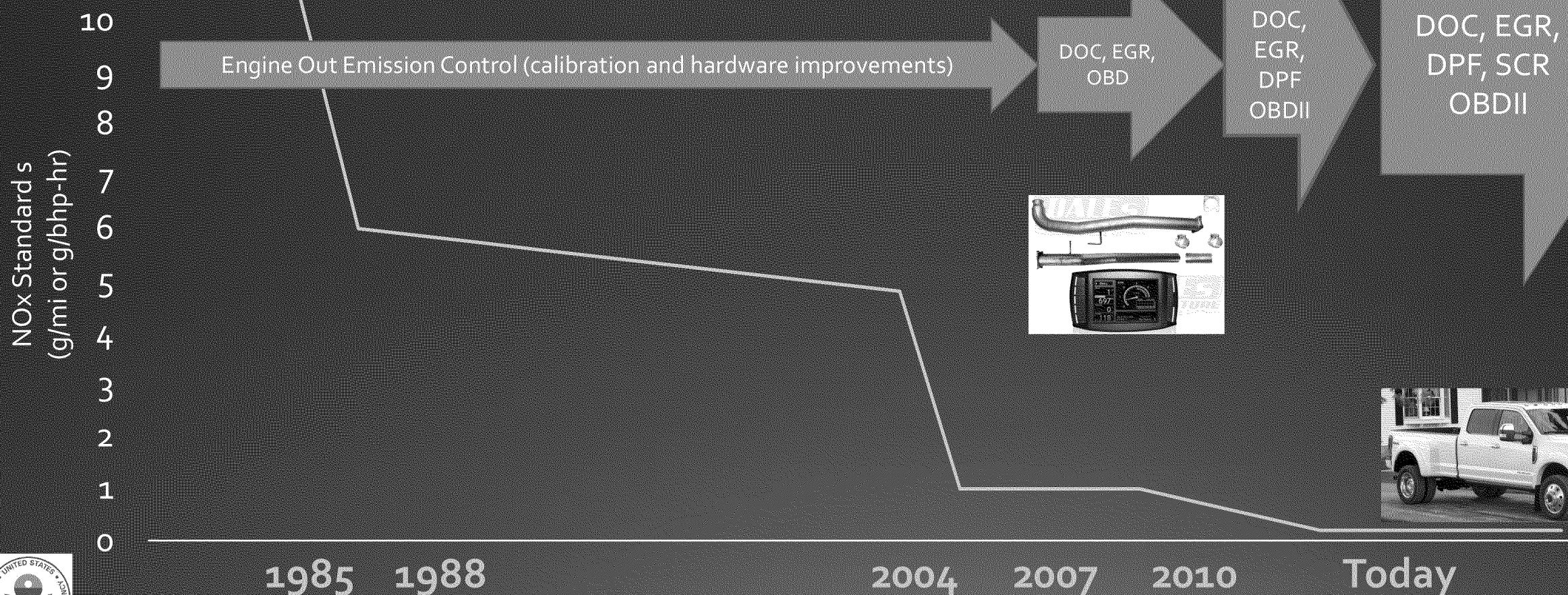
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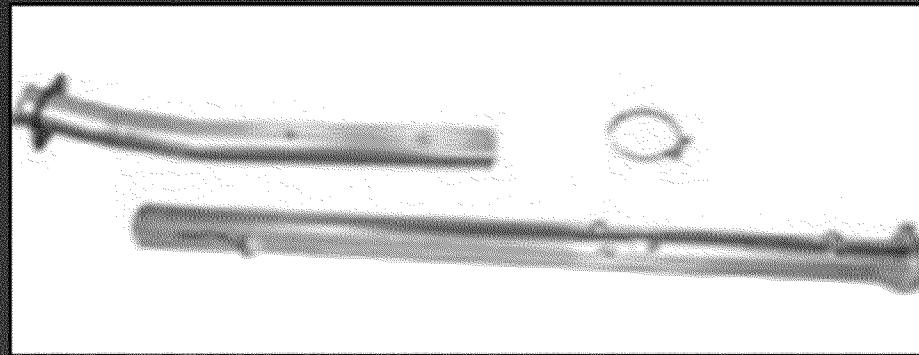
## Tier Zero



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Hardware



*Straight Pipe*

Software

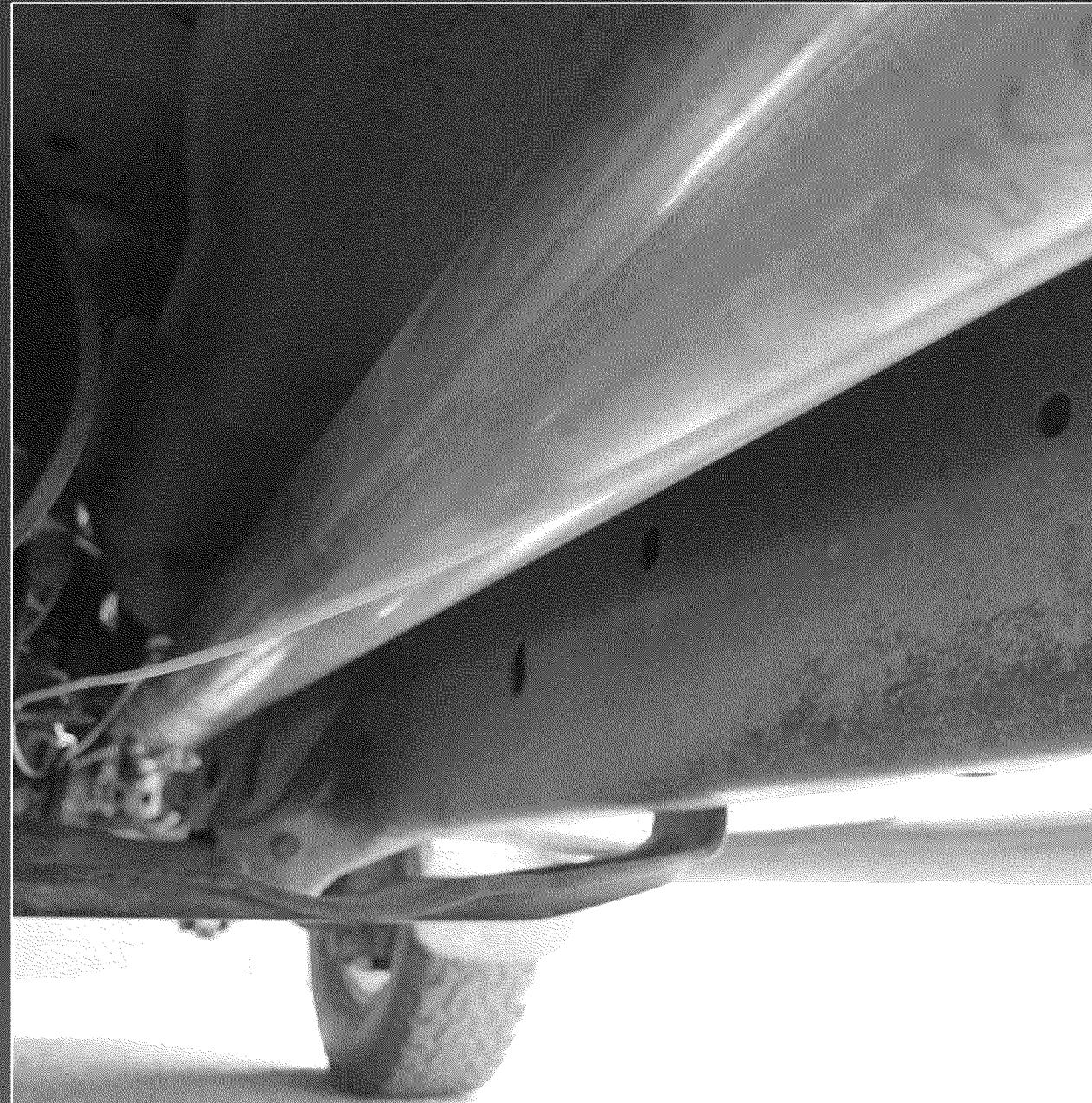


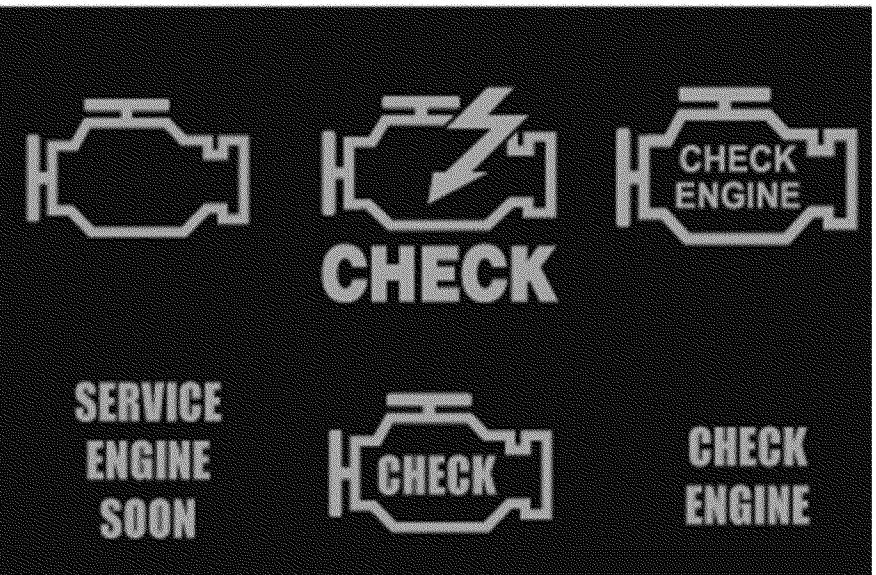
*Tuner*

Aftertreatment system removed...



...and replaced with a straight pipe





*"The Acme Defeat Device unlocks your vehicle's hidden performance by recalibrating your vehicle's computer for maximum horsepower & torque, increased throttle response, firmer shifts and even increased fuel mileage."*

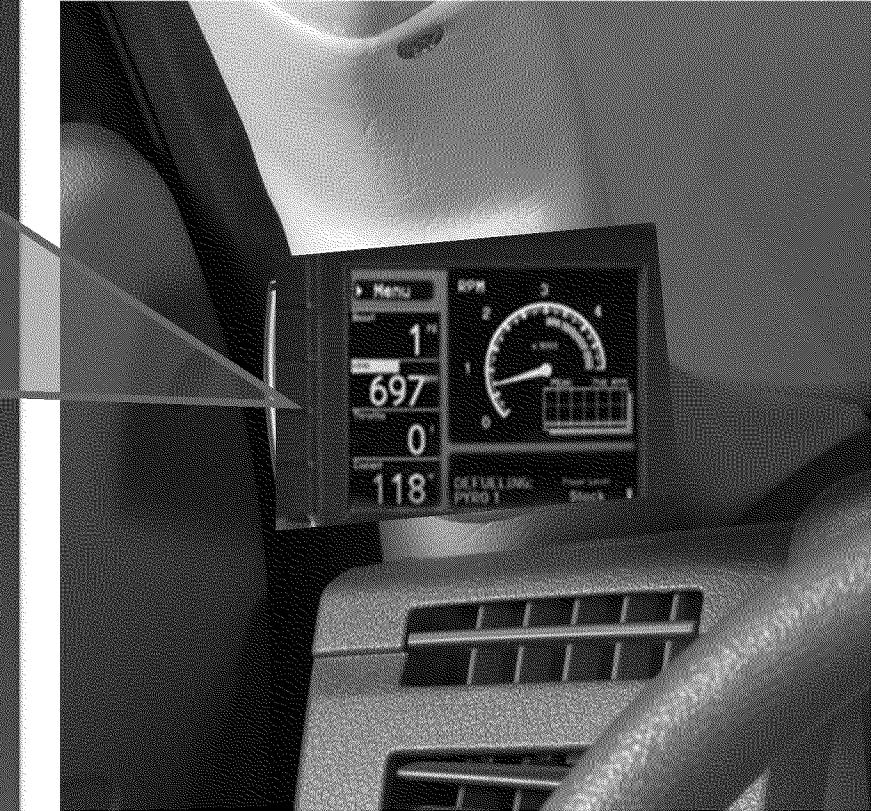


Photo of a **tuner** mounted on a dashboard

1197F108B36472  
E96810F3C6985E08L  
06C6619D**B0EE8220031CA**  
049CFC771BB69A2E93E  
91B6D04D13155230A3DE7E  
8895262B127905DE65C01D  
AF3F5463B6EBED9DC79E5  
5894B4635403EFS04E7E  
575B144F068FA64D9300A3B  
03C04E4136C4FFD7E45534A  
68957F8FE88F827A5E0E  
19FF72B5CCAS8FF1A65  
64C5B63E119528E72



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Manufacturers

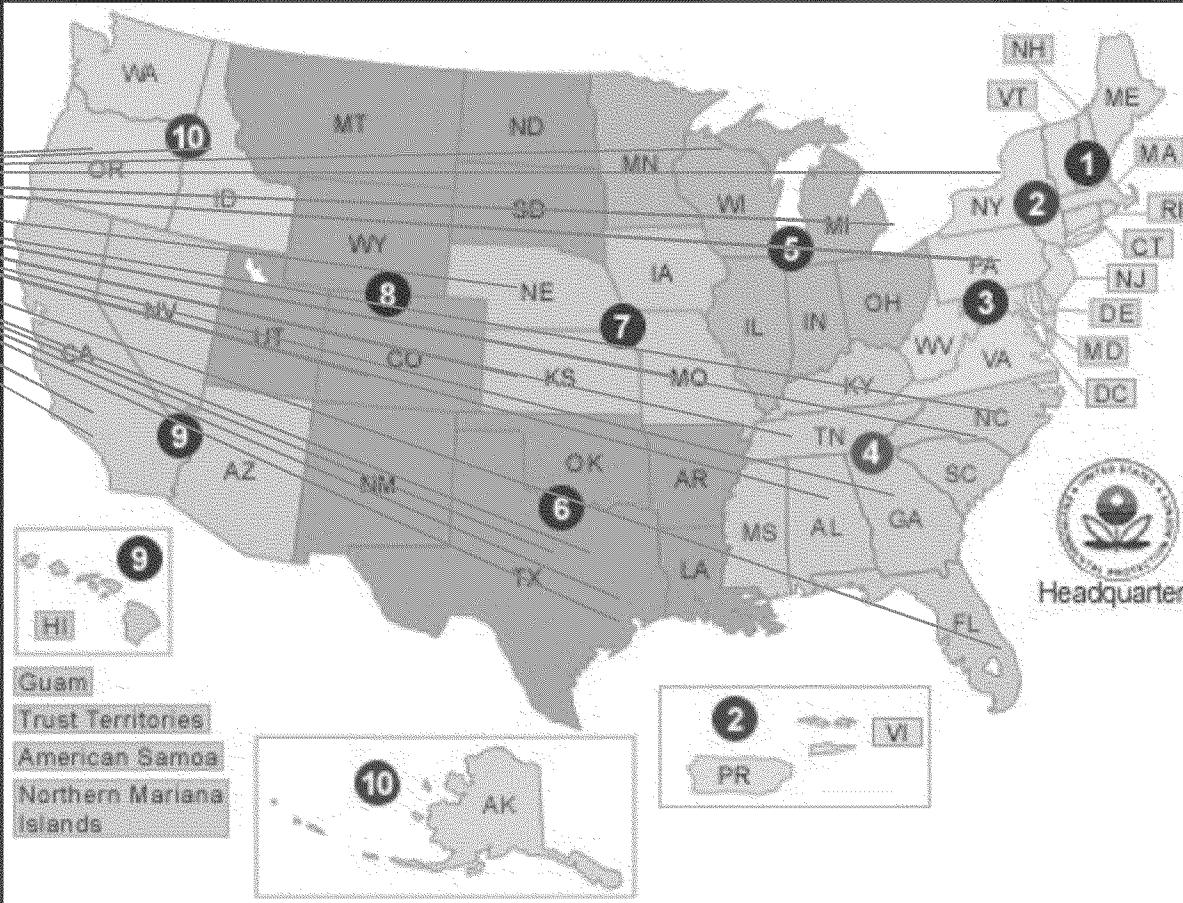
Retailers

Installers

End users

# Sampling of tips in a month

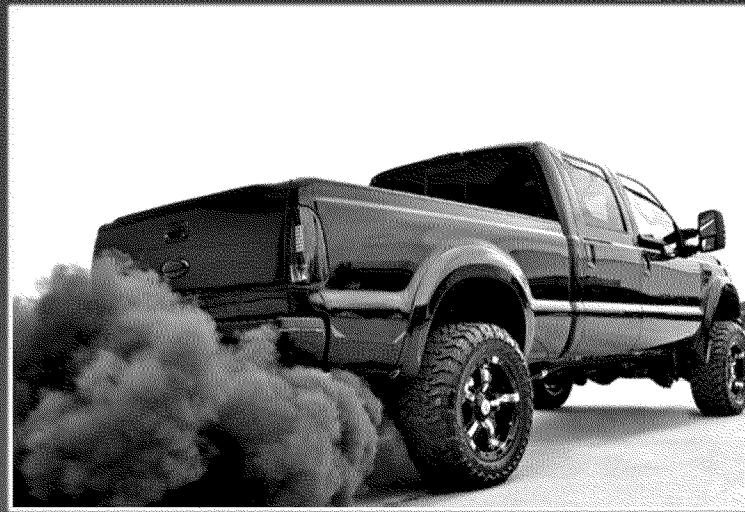
16 States



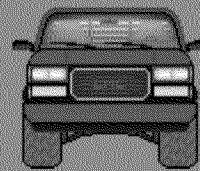
If you suspect someone is manufacturing, selling, or installing illegal defeat devices, or is tampering with emission controls, tell the EPA by writing to:  
[tampering@epa.gov](mailto:tampering@epa.gov)

## Air Quality & Public Health

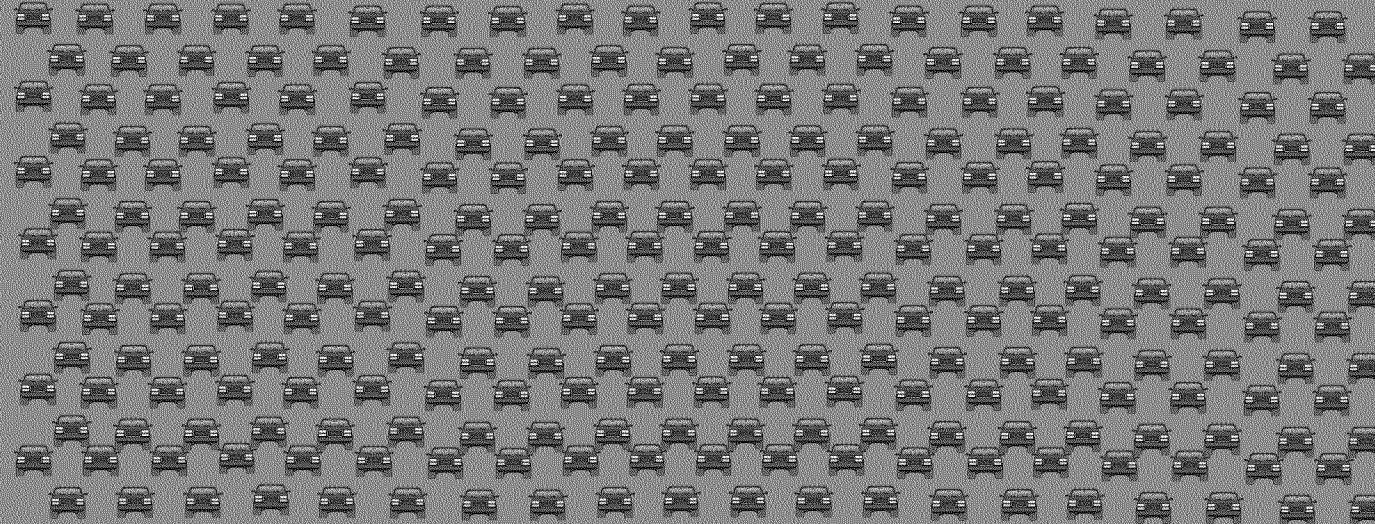
- Testing shows that vehicles equipped with defeat devices can have emissions **tens to hundreds of times higher** than compliant vehicles, depending on the device and the extent of the work done on the vehicle.
- Our cases show that these devices are effectively adding **millions of cars and trucks** to our public roads.



# Emissions Increase Due to Full Delete



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NOx increased ~310x

NMHC increased ~1,140x

CO increased ~120x

PM increased ~40x

Test results when a tuner  
enables the full removal of  
emissions controls.



In EPA enforcement cases alone...

**500,000+ trucks have been deleted.**

That's ~13% of all trucks.

**500,000+ tons of excess NOx**

Air quality impact equivalent to  
adding 9 million more trucks to our roads,  
doubling truck sales over the past decade.



Department of Justice



U.S. Attorney's Office

Southern District of California

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FOR IMMEDIATE RELEASE

Thursday, April 11, 2019

## **San Marcos Companies and Executives Charged with Tampering with Emission Control Devices on Diesel Truck Fleet**

**Assistant U.S. Attorney Melanie K. Pierson (619) 546-7976** 

### **NEWS RELEASE SUMMARY – April 11, 2019**

**SAN DIEGO** – A federal grand jury in San Diego today returned a six-count indictment charging three San Marcos companies, two managers and a technician with various felonies related to tampering with emission control devices on heavy-duty diesel trucks.

Diamond Environmental Services LP, Diamond Maintenance Services, LLC and Diamond Solid Waste, Inc. (collectively “Diamond”) of San Marcos, California, plus owner and manager Arie Eric De Jong III, manager Warren Van Dam and technician Jorge Leyva Rodriguez of ECM Diesel Programming were charged with conspiring to manipulate the electronic control module (ECM) on Diamond’s fleet of heavy duty diesel trucks. The alleged manipulation was designed to disable the monitoring system that would

**EMISSIONS-RELATED PARTS**

**BEFORE YOU SELL...**

Have proof that the parts will not increase emissions (for example, emissions test results or an Executive Order from California Air Resources Board demonstrating no illegal emissions increase for the intended use of the part).

**BEFORE YOU INSTALL...**

Have proof that the vehicle will be returned to its original, stock configuration after installation; or

Have proof that the parts will not increase emissions.

**REPORT PROBLEMS**

If you suspect someone is manufacturing, selling or installing illegal defeat devices, or is tampering with emissions controls, tell the EPA by writing to:

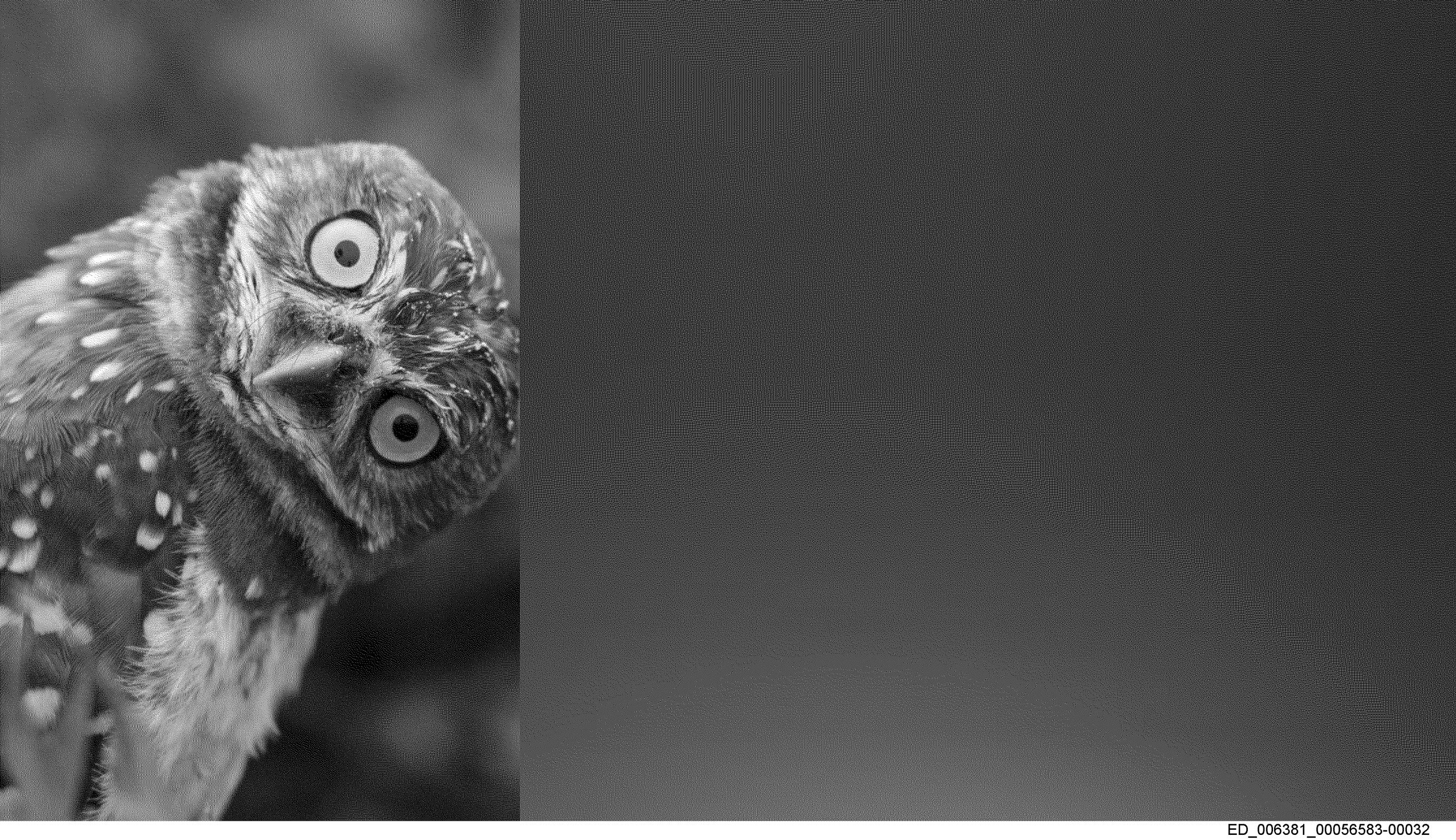
[tampering@epa.gov](mailto:tampering@epa.gov)

**TAMPERING POLLUTES OUR AIR**

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